

# Bijections for phylogenetic networks

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## Abstract

Bijjective proofs are widely used in combinatorial counting problems. In this talk, I will explain the role bijective proofs have recently played in the counting of phylogenetic networks (tree-child networks and ranked tree-child networks). The talk is based on joint work with Alessandra Caraceni (Scuola Normale Superiore), Michael Fuchs (National Chengchi University) and Louxin Zhang (National Singapore University).

**Keywords:** bijections; bijective proofs; phylogenetic networks; tree-child networks; ranked tree-child networks.